

PBT, short for Polybutylene Terephthalate, is a thermoplastic polyester material known for its excellent mechanical properties, dimensional stability, and chemical resistance. It has a high melting point and low moisture absorption, making it suitable for various applications.

Chemical Description

Description	Value
Material Type	Thermoplastic
Chemical Name	Polybutylene Terephthalate (PBT)
Additives	No
UV Resistant	No

Physical Properties

Property	Maximum Unless Range is Specified
Density,g/cm3	1.31
Water Absorption, 24 hrs, Immersion,% by wt.	0.08
Specific Gravity	1.32
Mold Shrinkage, flow, 3.2 mm	1.5%-1.8%
Melt Flow Rate, 250°C/1.2 kgf	127

Mechanical Properties

Property	Maximum Unless Range is Specified
Tensile Stress,MPa	50
Tensile Modulus,MPa	2500
Flexural Stress,,MPa	81
Flexural Modulus,MPa	2290
Izod Impact-Notched,J/m	28

The material properties in this datasheet are provided by one of the manufacturers collaborating with Naxtry. Please note that material properties may slightly vary among different manufacturers. Naxtry can accommodate customer requests for specific materials or brands.